

AN/GSR-9 & AN/GSR-10 Unattended Ground Sensors (UGS) The Unattended Ground Sensors (UGS) program is divided into two major subgroups of sensing systems: AN/GSR-9 (V) 1 Tactical-UGS (T-UGS), which includes Intelligence, Surveillance & Reconnaissance (ISR)-UGS and Radiological & Nuclear UGS; and AN/GSR-10 (V) 1 Urban-UGS (U-UGS), also known as Urban Military Operations in Urban Terrain (MOUT) Advanced Sensor System (UMASS). The UGS are used to perform mission tasks such as perimeter defense, surveillance, target acquisition and situational awareness, including Radiological, Nuclear, and early warning. Soldiers involved in the recent testing of the UGS provided invaluable feedback, which was incorporated into new versions (form factors) that are now in final development.



XM1216 Small Unmanned Ground Vehicle (SUGV) is a lightweight, Soldier portable unmanned ground vehicle capable of conducting military operations in urban terrain, tunnels, sewers, and caves. The SUGV aids in the performance of urban Intelligence, Surveillance, and Reconnaissance (ISR) missions, chemical/Toxic Industrial Chemicals (TIC), and Toxic Industrial Materials (TIM) reconnaissance and inspecting suspected booby traps and improvised explosive devices without exposing Soldiers to these hazards. The SUGV's modular design allows multiple payloads to be integrated in a plug-and-play fashion that will minimize the Soldier's exposure to hazards. Payloads to be fielded are the manipulator arm, tether capability, chemical/radiation detection and a Laser Target Designator. Weighing 32 pounds, the SUGV is capable of carrying up to four pounds of payload weight.



For additional information about the program please visit our website:
<https://www.bctmod.army.mil>



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**EARLY INFANTRY BRIGADE COMBAT
TEAM CAPABILITY PACKAGE**

Capability packages provide the Army a regular process to strengthen our units with the latest materiel and non-materiel solutions to the evolving challenges of the operating environment. This allows the Army to get the capabilities in highest demand to the Soldiers that need them, when they need them most. By fielding capabilities in alignment with the way BCTs are structured and trained, the Army is ensuring that our Soldiers have the right capabilities to fight effectively as a system in the environments they are facing. Capability Packages are a key element of the Army's transition to a Brigade Combat Team (BCT) Modernization Strategy to build a versatile mix of mobile, networked and combat effective BCTs. Accelerating proven solutions, these packages will upgrade our units every few years. The best capabilities available at

The E-IBCT package will consist of the following systems: the Non Line of Sight-Launch System (NLOS-LS), Urban and Tactical Unattended Ground Systems (U/T UGS), Class 1 (Block 0) Unmanned Aerial Vehicle (UAV), and Small Unmanned Ground Vehicle (SUGV) Block 1. The E-IBCT will be fully integrated and networked through the Network Integration Kit.

The Network

The Army will continue development and fielding of an incremental ground tactical network capability, fielded to all Army BCTs. This network is a layered system of interconnected computers and software, radios, and sensors within the Brigade Combat Team.



XM501 Non Line of Sight-Launch System (NLOS-LS)

The XM501 Non Line of Sight-Launch System (NLOS-LS) consists of a platform-independent Container Launch Unit (CLU) with self-contained technical fire control electronics and software for remote and unmanned operations. Each CLU consists of a computer and communications system and 15 Precision Attack Missiles (PAM). The NLOS-LS provides a rapidly deployable and network-linked precision guided munitions launch capability that is currently not available within the Army.



"We must be prepared for the future - prepared for challenges we can see on the horizon and ones that we may not even have imagined." - Robert M. Gates United States Secretary of Defense

that time go to the Soldiers who need them most, based on the continually evolving combat environment. These bundles of capabilities include doctrine, organization, and training in conjunction with materiel to fill the highest priority shortfalls and mitigate risk for Soldiers. The incremental deliveries will build upon one another as the Army continually adapts and modernizes.

Early Infantry Brigade Combat Team Capability Package

Early IBCT modernization will provide enhanced Warfighter capabilities to the force. E-IBCT capability package provides enhanced situational awareness, force protection, and lethality through the use of unattended and attended sensors and munitions. In addition, the Soldier is provided improved communications and data sharing through the Network Integration Kit (NIK).



The network is essential to enable Unified Battle Command and will be delivered to the Army's Brigade Combat Teams in increasing capability increments. The first increment is currently finishing SDD developmental and operational testing and will be delivered to Infantry Brigade Combat Teams in the form of Network Integration Kits (B-kits) with E-IBCT.

The Network Integration Kit (NIK)

The NIK is an integrated suite of equipment on a HMMWV that provides the Network connectivity and battle command software to integrate and fuse sensor data into the common operational picture (COP) The Network Integration Kit consists of an integrated computer system (ICS) that hosts Battle Command software and the Systems of Systems Common Operating Environment (SOSCOE) software, along with a Joint Tactical Radio System (JTRS) Ground Mobile Radio (GMR) radio to provide the interface to the sensors and unmanned systems, as well as voice and data communications with other vehicles and tactical operations centers.



XM156 Class I Unmanned Aerial Vehicle (UAV)

The XM156 Class I Unmanned Aerial Vehicle (UAV) is a platoon level asset that provides the dismounted soldier with Reconnaissance, Surveillance, and Target Acquisition (RSTA) and laser designation. The air vehicle operates in open, rolling, complex and urban terrains with a vertical take-off and landing capability. It is interoperable with select ground and air platforms and controlled by mounted or dismounted soldiers. The Class I uses autonomous flight and navigation, but it will interact with the network and Soldier to dynamically update routes and target information. It provides dedicated reconnaissance support and early warning to the lowest echelons of the Brigade Combat Team (BCT) in environments not suited to larger assets.

